

underlined = deleted in targeting construct

**BOLD** = sequence flanking Neo insert in targeting construct

CGCCTGTGCCCTCTGCCTGGGAGCCTGGGGCCGCCTGTCTGCGCGGTCCGGATGCGCTCAGGTCAAGGTTCCCT  
 TTCGCGGCTGTCTCCCAAGCCCCCTAACTAGTGACTTCCACTGTGGCGGGCAGGGAAGCCATTGGCAGAACCTA  
 GCCAGTCAGGAATCTGCATCTCTTCCCTCATTTATCCTCTCCCTGGCATTGCTTTGCTCGGGTCCAGCTCAGTT  
 GGTGACGCGGCCCTTCTCCCCAGGTTGGGATCCACGGAAGCAGGGGTGCAGGCCGGCCAGGCACCTGTGCCAT  
 GAGCCAGAGCCCCGAGGTTTCGTGACCCGGAGGGGCCGCTCTCTAAAGGCTGCCCTGGAGCCGGCACCCGGCGC  
 AACGAGAGCCAGGACTATTTGCTGATGGACGAGCTGGGAGACGACGGCTACCCGCAGCTCCCGCTGCCACCGT  
 ATGGCTACTACCCAGCTTCCGGGGTAATGAAAACAGACTGACTCACCGGCGGCAGACGATTCTTCGTGAGAA  
 GGGGAAGAAGTTAGCTAATCGAGGACCAGCATACATGTTAATGATCATTCAACAAGCCTGTCTATTGAGGAA  
 GAACGCTTTCTAGATGCAGTTGAATATGGCAACATCCCAGTGGTCTGGAAGATGCTAGAAGAGTGTCAATCCC  
 TCAATGTTAACTGTGTGGATTACATGGGCCAGAATGCCCTACAGCTGGCTGTGGCCAATGAGCACTTGGAAAT  
 CACAGAGCTGTCTACTCAAGAAGGAAACTTGCTCTGAGTTGGGGATGCTTTACTTTTAGCCATTAGTAAAGGT  
 TATGTACGGATTGTGGGGATCACTCAACCATCCATCTTTTGTGTAAGGCAAAAGGTTAGCGACAAGCCCCA  
 GCCAGTCTGAACCTTCAGCAAGATGACTTTTATGCCATGATGAAGATGGGACGCGGTTCTCCCATGATGTGAC  
 TCCAATCATTTCTCGCTGCACATTGCCAGGAATATGAAATTTGTGCATACCCTCCTGAGAAAGGGTGCCCGGATT  
 GAGCGGCCTCATGATTACTTCTGCAAGTGTACAGAATGCAGCCAGAAGCAGAAGCATGATTCCTTCAGCCACT  
 CTAGATCCAGGATCAATGCATACAAAGGTCTGGCAGTCCAGCATACCTGTCATTGTCCAGTGAGATCCAGT  
 CATGACTGCTTTAGAAGTTAGCAATGAGCTGGCAGTGTCTGCCAACATTGAGAAAGAGTTCAAGAATGACTAC  
 AGGAAGCTGTCTATGCAGTGCAAGGATTTTCGTTGTTGGTCTCTTGGACCTCTGCAGAAACACAGAGGAAGTGG  
 AGGCATCCTGAATGGGGATGCAGAGACTCGCCAGCCCGGGGACTTCGGCCGTCCAAATCTCAGCCGTTTAA  
 ACTTGCTATTAAAGGATGAAGTAAAAAAATTTGTGGCTCATCCAACTGTCTAGCAACAGCTCCTGTCCATATGG  
**TATGAGAACCTCTCTGGTTTACGGCAGCAGACCATGGCAGTGAAGTTCCCTCGTGGTCTCTGCTGTTGCCATTG**  
**GATTGCCCTTCTGGCTCTCATATACTGGTGTGCTCCTTGACGAAGATGGGGAAGATATTGCCGAGACCGTT**  
 CATGAAGTTTGTAGCACACGCAGCCTCCTTACCATTTCCTGGGGCTGCTCGTCATGAATGCAGCTGCACAGA  
 TTTGAAGGCACCAAGCTCCTCCCTAATGAAACCAGCACAGATAATGCAAGGCAGCTGTTTCAGGATGAAAACAT  
 CCTGTTTCTCATGGATGGAGATGCTCATTTATATCCTGGGTAATAGGCATGATATGGGCTGAATGTAAAGAAAT  
 CTGGACTCAAGGCCCCAAAGAATACTTATTTGAGTTGTGGAATATGCTTGACTTTGGAATGCTGGCAATCTTT  
 GCAGCATCATTCAATGCAAGATTTATGGCGTTCTGGCATGCATCCAAAGCTCAGAGCATCATTTGATGCAATG  
 ATACTTTAAAGGATTTGACAAAAGTCACACTGGGGGACAACGTTAAATACTACAATCTGGCCAGGATAAAGTG  
 GGACCCTACTGATCCTCAGATCATCTCTGAAGGCTTTATGCAATCGCTGTGGTTTTAAGTTTCTCCAGAATA  
 GCTTACATTTTACCAGCAAATGAAAGCTTTGGACCTCTGCAGATTTCACTTGAAGAAGCAGTGAAAGATATCT  
 TCAAATTCATGGTCATATTCATCATGGTGTGTTGAGCCTTTATGATTGGAATGTTCAACCTTTACTCCTACTA  
 CATTTGGCGCAAAACAGAATGAAGCATTCACAACAGTTGAGGAAAGTTTTAAGACACTGTTCTGGGCTATCTTT  
 GGTCTTTCTGAAGTGAAGTCAGTGGTCATTAACFACAATCACAAGTTTCAATGAAAACATCGGCTACGTTCTGT  
 ATGGTGTCTATAATGTCAATGGTCATTGTTTTGCTAAATATGTTAATTGCGATGATCAATAGTTTCAATCCA  
 GGAAATTGAGGATGATGCGGACGTGGAGTGAAGTTTGCAAGGGCCAAATTGTGGTTTTCTACTTTGAGGAG  
 GGGAGAACACTTCCTGTCCCTTCAATCTTGATACCAAGTCCAAAATCCTTGCTTTATCTCCTATTGAAATTTA  
 AGAAATGGATGTGTGAGCTCATCCAGGGTCAAAAGCAAGGCTTCCAAGAAGATGCAGAGATGAACAAGAGAAA  
 TGAAGAAAAGAAATTTGGAATTTTCAGGAAGTCACGAAGACCTTTCAAATTTTCACTTGACAAAATCAGTTG  
 GCACACAACAAAACATCAAGTACAAGGAGCTCAGAAGATTATCATTTAAATAGTTTCAGTAACCTTCCAAGAC  
 AATATCAGAAAATCATGAAGAGACTCATTTAAAGATATGTATTGCAGGCCAGATTGATAAGGAGAGCGATGA  
 GGTGAATGAAGGGGAATTGAAGGAAATTAAGCAAGACATCTCAAGTCTCCGTTATGAACTCCTTGAAGAGAAA  
 TCACAGAATCAGAAGACCTAGCAGAGCTCATTAGAAAACTCGGGGAGAGACTGTCGTTAGAGCCAAAGCTGG  
 AGGAAAGCCGCAGATAGAGCAGAGCCCCCAGAAAGTGCATATTTATTTCTCCACTTGAAGCCATATTATTTTC  
 TGACTTATTTTTTTAAGTGTCAATGATAAAAAGTATGTTAACTGATAACTTGGATCATTAGAGTCCTAATAT  
 CAAGCTTTTTTGGGAGATTAAATTGCATTGCTGAGGGCTAACAATTGCTG (SEQ ID NO:1)

**FIGURE 3**